

Ref: 90-129701-049

December 21, 2004

Mr. Robert Stone Humboldt County Department of Health and Human Services Division of Environmental Health 100 H Street, Suite 100 Eureka, CA 95501

Re: Quarterly Groundwater Monitoring Data for November 2004

Former Dutra Trucking, 5005 Boyd Road, Arcata, California

LOP # 12264

Dear Mr. Stone:

On behalf of Mr. Frank Dutra, Winzler & Kelly Consulting Engineers (Winzler & Kelly) is submitting these quarterly groundwater monitoring data collected in November 2004 for the above-referenced site.

The purpose of this letter report is to document the activities, results, and findings of the quarterly groundwater monitoring program. All figures and tables referred to herein are included in Appendix A and Appendix B, respectively. Laboratory analytical reports are contained in Appendix C, Standard Operating Procedures (SOPs) are contained in Appendix D, and field notes are contained in Appendix E.

Quarterly Monitoring Activities

On November 30, 2004, a Winzler & Kelly technician obtained water levels from monitoring wells MW-2 and MW-3 (monitoring wells MW-1, MW-4, and MW-5 were dry). Only monitoring well, MW-2, contained adequate water for purging prior to sampling, and though MW-3 was sampled; purging was not performed due to minimal water present in the well. Monitoring well MW-2 was purged and sampled, and MW-3 was sampled according to Winzler & Kelly SOPs for *Monitoring Well Purging and Sampling Activities* (Appendix D). In order to calculate groundwater gradient, at least three water levels collected from the wells are necessary thus gradient calculations were not possible for the November 30, 2004, monitoring event. Site vicinity, monitoring well locations, and previous groundwater gradient information are shown on Figures 1, and 2, respectively (Appendix A).

Hydrographic Data

Depth to water measurements were collected after removing all well caps and allowing the wells to stabilize for at least 15 minutes. Cumulative water level measurements are presented in Table 1 (Appendix B). Depth to water and hydrographic parameters calculated from well casing elevation and depth to water data were performed in accordance with Winzler & Kelly SOPs (Appendix D).



On March 3, 2004, surveyed well locations and top of well casing elevation data was collected by Ontiveros & Associates to facilitate calculation of groundwater gradient and allow electronic data submittal. Top of casing elevations were surveyed to the nearest 0.01 foot above mean sea level (msl) relative to the NAD88 datum, as required for submittal of survey data to the State Water Resource Control Board Geotracker System (Geotracker). Well locations were surveyed relative to the State Plane Coordinate System and in degrees latitude/longitude to seven decimal places. Cumulative hydrographic data are discussed in the narrative below, as well as being presented on Figure 2, (Appendix A).

The February and May 2004 groundwater gradients between the variable site monitoring wells containing water were calculated using triangulation. The February 2004 groundwater gradient was calculated using data from four wells to be 12.53 feet per 100 feet and flowing in a westerly direction at approximately 271 degrees Azimuth. The May 2004 groundwater gradient using data from three wells was calculated to be 16 feet per 100 feet and flowing in a northeasterly direction at approximately 71 degrees Azimuth (see Figure 2, contained in Appendix A for Gradient Maps).

The May 2004 groundwater gradient direction is opposite what one would predict based upon topography, the location of the Mad River in relation to the site, and the previous groundwater gradient calculations. Given that the three wells providing adequate water for gaging depth to water in May 2004 included MW-3 within the former tank excavation, and MW-2 at the eastern margin of the tank pit, and MW-5 north east of the tank pit, groundwater gradient calculations appear to be skewed due the perched groundwater condition apparent in the former tank excavation. Table 2 (Appendix B) summarizes cumulative groundwater gradient calculations. Groundwater gradient calculations using triangulation or linear regression require at least three sample points. Due to the lack of three groundwater gage points available during November 2004, gradient calculations could not be made.

The five site monitoring wells at the former Dutra Trucking site were drilled during November 2003. At that time, only MW-3 drilled to 15 feet within the tank excavation produced abundant water at a shallow depth. Monitoring well MW-2 was drilled to 20 feet at the eastern margin of the former underground storage tank (UST) excavation. Monitoring wells MW-1, MW-4 and MW-5 were initially drilled peripheral to the former tank excavation to the planned depth of 20 feet and then were deepened to 25 feet to encounter the water table.

Across the approximately 100 feet between monitoring wells at this site, groundwater elevation typically differs by greater than 10 feet. According to the May 2004 gradient calculations, groundwater gradient was 16 feet per 100 feet. As the former Dutra Trucking site is nearly flat, these groundwater data appear to indicate that a perched condition is present within the former UST excavation to explain the calculated steep groundwater gradients.



Groundwater Sampling

On November 30, 2004, monitoring well MW-2 was purged and sampled while MW-3 was sampled without purging. All monitoring well purging and sampling was performed in accordance with Winzler & Kelly Standard Operating Procedures (Appendix D). After purging at least three wetted casing volumes of water from monitoring well MW-2, the water level was allowed to recover to approximately 80% of the pre-purge level before sampling. Monitoring well MW-2 was sampled within 1 hour of purging.

Monitoring well MW-3 did not contain enough water for purging prior to sampling. The water level, measured at 14.41 feet below ground surface (bgs), in relation to the total depth of the well, measured at 14.55 feet bgs, left the height of the available water column at only 0.14 feet. This observation led to the decision to collect the sample without purging.

As part of the quarterly groundwater monitoring program, groundwater samples collected from the site monitoring wells were analyzed for the following:

- Total Petroleum Hydrocarbons as Diesel (TPH-D) by EPA Method 3550:
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and Methyl Tertiary
 Butyl Ether (MTBE) by EPA Method 8021B;

Groundwater Analytical Results

A concentration of TPH-D was measured at 9,600 parts per billion (ppb) from groundwater samples obtained from monitoring well MW-3. All other constituents analyzed from monitoring well MW-2 and MW-3 were below laboratory detection limits. Laboratory analytical results will be submitted electronically to the State Water Resources Control Board (SWRCB) Geotracker System. Laboratory analytical results are presented in Table 3 (Appendix B). Copies of the laboratory analytical reports are included in Appendix C.

Disposition of Wastewater

Purge water is currently being stored in 55-gallon drums on site pending disposal arrangements.

Quality Assurance/Quality Control (QA/QC)

Field QA/QC was provided by adherence to the Winzler & Kelly Standard Operating Procedures for "Monitor Well Purging and Sampling Activities", as contained in Appendix D.

Laboratory QA/QC was provided by the use of lab Method Blanks to preclude false positive analysis of analytes and the use of Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (LCSD) samples to evaluate the percentage recovery of target analytes and reproducibility during analysis.



The laboratory provided the following notes regarding QA/QC:

"BTEX:

The laboratory control sample duplicate (LCSD) recovery was below the lower acceptance limit for MTBE. The laboratory control sample (LCS) recovery was within the acceptance limits; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for MTBE. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

TPH as Diesel:

Sample MW-3 contains material similar to degraded or weathered diesel oil. The surrogate for sample MW-3 could not be quantified due to a sample dilution."

Discussion

Groundwater gradient was calculated to flow to the west (271 degrees) in February 2004 at 12.53 feet per 100 feet. In May 2004, the groundwater flow direction was calculated to be to the northeast (71 degrees) at 16 feet per 100 feet. It appears that groundwater flows toward the Mad River during rainy months (February) and steeply away from the river during dry months (May). Due to insufficient water level data, groundwater gradient was not able to be calculated during the November 2004 sampling event.

Groundwater quality outside the former UST excavation continues to contain no detectable dissolved contaminants. Groundwater in the excavation continues to produce TPH-D at 320 ppb (February 2004), 850 ppb (May 2004), and 9,600 ppb (November 2004). These values are decreased from the December 2002 concentration of 21,000 ppb TPH-D. Residual contaminations in groundwater peak in monitoring well MW-3 during the late fall and early winter (November and December) and do not appear to correlate with elevated groundwater stands during mid-winter.

Conclusions

- The November 30, 2004, groundwater sampling event encountered groundwater in two wells thus groundwater gradient and direction were not able to be calculated,
- Groundwater elevation and contaminant data appear to indicate that perched groundwater is restricted to the former UST excavation.
- This perched condition appears to restrict the migration of residual diesel contaminant present in groundwater to the confines of the former tank excavation.
- Concentrations of TPH-D were detected at a concentration of 9,600 parts per billion from groundwater samples obtained from monitoring well MW-3 only, while all other constituents analyzed remained below laboratory detection limits in monitoring wells MW-2 and MW-3.



The next groundwater sampling event is scheduled for February 2005. This event will be scheduled following a particularly rainy period to improve the likelihood of obtaining groundwater samples from all five wells.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

WINZLER & KELLY

WINZLER & KELLY

Holly Vadurro Staff Scientist Reviewed by:

Kenneth Thiessen, CEG #2224

Geologist

SW

Enclosures:

Appendix A: Figures

Figure 1 Site Vicinity Map Figure 2 Gradient Site Map

Appendix B: Tables

Table 1 Groundwater Level Measurements

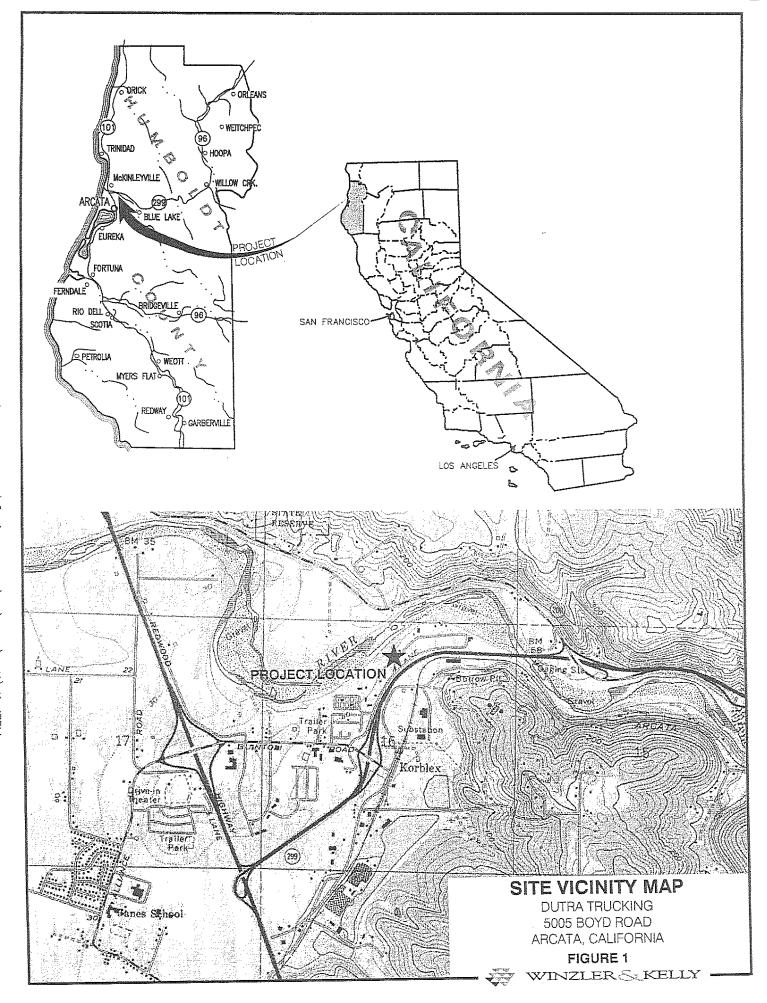
Table 2 Groundwater Gradient Data Table 3 Groundwater Analytical Results Appendix C: Laboratory Analytical Reports Appendix D: Standard Operating Procedures

Appendix E: Field Notes

Distribution list:

Mr. Frank Dutra P.O. Box 898 Willow Creek, California 95573

Mr. Robert Stone Humboldt County Department of Public Health Division of Environmental Health 100 H Street, Suite 100 Eureka, California 95501



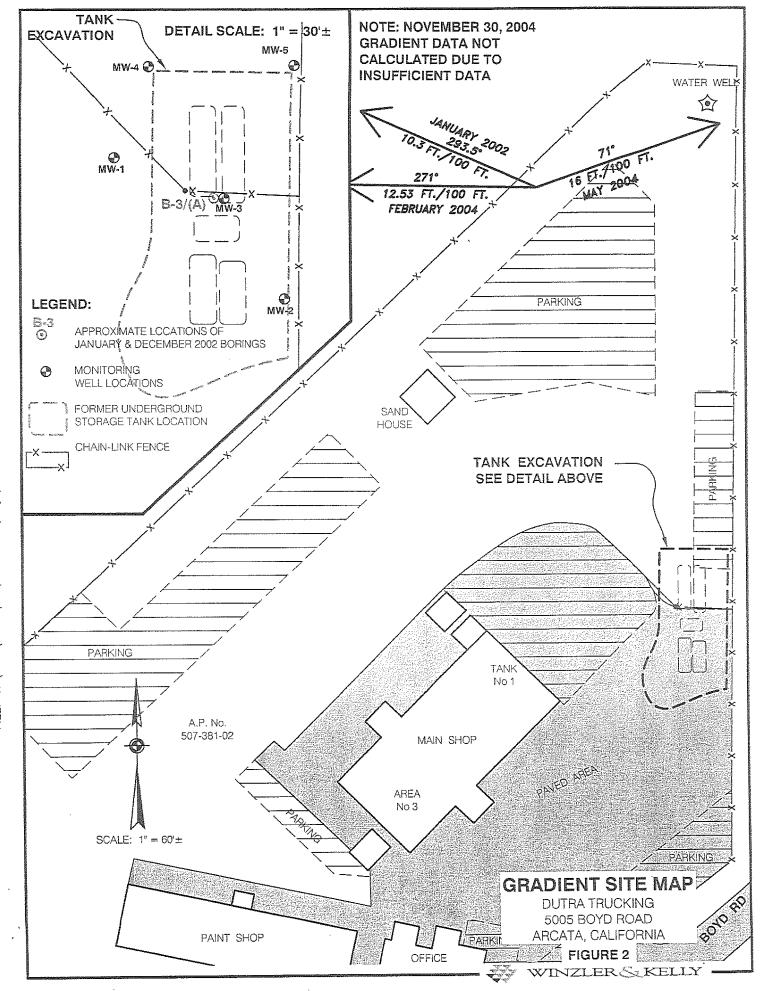


TABLE 1 GROUNDWATER LEVEL MEASUREMENTS Former Dutra Trucking, LOP #12264

epth																	
A-D Equivalent Depth	to Water	(¥)	14.55	NA	AN	7.55	13.00	13.53	10,31	12.45	14.41	AN	¥	NA	8.56	18.45	NA
D Correction	Factor	(C x 0.729*)	00.00	00'0	0.00	00.00	00.00	00.00	0.00	00.00	0.00	0.00	00.0	00'0	0.00	00:00	000
(A-B=C) Product	Thickness	(E)	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	00'0	0.00	0.00	0.00	00.0	0.00	0.00
B Depth to	Product	(ff)	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A Depth to	Water	(tt)	14.55	DRY	DRY	7.55	13,00	13.53	10.31	12.45	14.41	DRY	DRY	DRY	8.56	18.45	DRY
Top of	Casing	(ff)	48,03	48.03	48,03	47.49	47.49	47.49	47.80	47.80	47.80	48.54	48.54	48.54	48.62	48.62	48362
Groundwater	Elevation	(ft)	33.48	NA	ΥN	39.94	34.49	33,96	37,49	35.35	33,39	NA	NA	NA	40.06	30.17	MA
	Date		4-Feb-04	3-May-04	30-Nov-04												
	Well	Number		MW-1	,		MW-2			MW-3			MW-4			MW-5	

*0.729 is the density of gasoline at 15oC as referenced in the API Publication 1628, Second Edition, August, 1989 NA Not applicable NS Not survyed. Wells are to be surveyed in March 2004

Table 2
Groundwater Gradient Data
Former Dutra Trucking, LOP #12264

					_	
Gradient Magnitude	(ft./100 ft.)	10.3	12.53	16	AN	
Gradient Direction	(degrees Azimuth)	Northwest (293.5)	West (271)	Northeast (71)	NA	
Date		1/29/2002 *	2/04/2004 **	5/03/2004 **	11/30/2004****	

* Gradient direction and magnitude based upon temporary well installations

** Gradient direction and magnitude based upon permanent monitoring well locations **** Gradient direction and magnitude could not be calculated; three of the

**** Gradient direction and magnitude could not be calculated; three of five wells were not measurable due to lack of water.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Former Dutra Trucking, LOP #12264

(All units reported in parts per billion)

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	1,2-	Dibromo	methane	(qdd)		2	2	물	문	S	QN -	9		N1A	2	S.	≨.	NA		Ϋ́	Ä	ž		MA	Ϋ́
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(1,4 DCB)	4.4	Dichloro	benzene	(qdd)		2	g	2	QN	QN	g	2	AND CONTRACTOR OF THE PARTY OF	AIN	< X	C.	NA.	1		NΑ	ΑĀ	Ϋ́		ΑN	NA
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_	Tertiary			(qdd)		Q	Q	QQ.	Q	Ŷ	QN QN	2	- COMMANDE WATER STATE S					NO.	ļ	Α̈́Ζ	NA	ΜA	The second secon	NA	¥
(TAME)	Tertiary	Amyl	Methyl	Ether (ppb)		92	QN	MD	Q.	Q.	2	2			i III)		9	PRD .		NA	NA	NA	OUTSTANDANCE CANADAMICS CONTRACTOR	4 Z	MA
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	OIPE) DI-	sopropyl		(qdd)		Q	R	Q	2	ON	NON	Q.	***************************************		2	2	9			٧Z	ΝA	NA	Nacional Property of the Party	NA	ΑN
(MTBE)	Methyl	Tertiary	utyl Ether	(qdd)		S	QN	ON	QN	2	ON ON	92					Q.	- ON		2	Q.	9		CIN	S
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		Ethyl-	benzene	(qdd)		Ð	S	2	2	S		2			2	QN	Q.	Q		2	2	Z		NIC.	9
		-	Toluene	(qdd)		2	S	Ŷ	2	g					2	2	9	QN QN		QZ	2		2	CIN.	Ş
			Benzene	(qdd)		9	Q.	2	S	2		QN CN			2	2	S	ON		92	CZ	GIN	7.1		22
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		TDH	Diagol	(qdd)	IVESTIGA	S	2	180		2 2	i	24 000	71,000	STIGATIO	2	QN	320	9	ER MONIT	CHA	RED	200	2	NDWATE	
			Sample	Date	THE SHARE INVESTIGATION 2002	28. Ian 02	28 120.02	20 121 00	23-Jan 02	28-Jan-02	29-Jan-02	29-Jan-02	30-Dec-02	OGIC INVE	4-Feb-04	4.Feh-Od	4.Feb-04	4-Feb-04	TAMUNITO	y www or	2 Way 04	3-May-04	3-May-04	2004 GROU	30-Nov-04
	**	•		Sample ID	TIME SING	1975	000	27	3 3	44	£	omestic Wel 29-Jan-uz	83	HYDROGEOLOGIC INVESTIGATION 2004	1,446	C-WWV	F.WW	MW-5	MANY 2004 GROUNDWATER MONITORING EVENT	2 44.44	1/1VV-2	2.4414	MW-5	NOVEMBER 2004 GROUNDWATER MONITORING EVENT	MW-2

ND Not Detected NA Not Analyzed



December 08, 2004

WK-EUREKA

Winzler and Kelly 633 Third Street Eureka, CA 95501

Attn: Ken Thiessen

RE: 90129801.049 Dutra Trucking



Order No.:

0411596

Invoice No.:

46631

PO No.:

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A ·	MW-2
01D	MW-2
02A	MW-3
020	MW-3

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wetweight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. Laboratory Director

North Coast Laboratories, Ltd.

CLIENT:

Winzler and Kelly

Project:

90129801.049 Dutra Trucking

Lab Order:

0411596

CASE NARRATIVE

Date: 08-Dec-04

BTEX:

The laboratory control sample duplicate (LCSD) recovery was below the lower acceptance limit for MTBE. The laboratory control sample (LCS) recovery was within the acceptance limits; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for MTBE. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

TPH as Diesel:

Sample MW-3 contains material similar to degraded or weathered diesel oil.

The surrogate for sample MW-3 could not be quantified due to a sample dilution.

Date:

08-Dec-04

WorkOrder: 0411596

ANALYTICAL REPORT

Received: 11/30/04

Collected: 11/30/04 13:02

Lab ID: 0411596-01A

Client Sample ID: MW-2

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathrm{DF}}$	Extracted	Anolygad
MTBE	ND	3.0	μg/L		Extracted	<u>Analyzed</u>
Benzene	ND	0,50		1.0		12/2/04
Toluene	ND		hâ\r	1.0		12/2/04
Ethylbenzene	·-	0.50	µg/∟	1.0		12/2/04
m,p-Xylene	ND	0.50	µg/∟	1.0		12/2/04
o-Xvlene	ND	0.50	µg/L	1.0		12/2/04
•	ND	0.50	ha/r	1.0		12/2/04
Surrogate: Cis-1,2-Dichloroethylene	98.4	85-115	% Rec	1.0		12/2/04

Client Sample ID: MW-2

Lab ID: 0411596-01D

Received: 11/30/04

Collected: 11/30/04 13:02

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	Units	$\overline{\mathrm{DF}}$	Extracted	Analyzed
TPHC Diesel	ND	 50			-	·
Surrogate: N-Tricosane			. hB\r	1.0	12/2/04	12/2/04
·	6.86	27.6-107	% Rec	1.0	12/2/04	12/2/04

Client Sample ID: MW-3

Lab ID: 0411596-02A

Received: 11/30/04

Collected: 11/30/04 11:30

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	Limit	<u>Units</u>	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0	<u>wan acce</u>	
Benzene	ND	0,50				12/2/04
Toluene	ND	0.50	μg/L	1.0		12/2/04
Ethylbenzene	ND		h8\F	1.0		12/2/04
m,p-Xylene		0.50	hð/F	1.0		12/2/04
o-Xviene	ND	0.50	µg/L	1.0		12/2/04
Surrogate: Cis-1,2-Dichloroethylene	ND	0.50	µg/L	1.0		12/2/04
Surrogate, Cis-1,2-Dichiproethylene	98.9	85-115	% Rec	1.0		12/2/04

Client Sample ID: MW-3

Lab ID: 0411596-02C

Received: 11/30/04

Collected: 11/30/04 11:30

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	$\overline{ ext{DF}}$	Extracted	Analyzed
TPHC Diesel	9.600	1.200				
Surrogate: N-Tricosane	•	, -	hā/F	25	12/2/04	12/3/04
our ogain, it moduling	NQ	27.6-107	% Rec	25	12/2/04	12/3/04

North Coast Laboratories, Ltd.

CLIENT: Winzler and Kelly Work Order: 0411596

Project: 90129801.049 Dutra Trucking

Date: 08-Dec-04

QC SUMMARY REPORT

Method Blank

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Client ID:		Run ID:	ORGC8_041201B	201B		SeqNo:	468101	-		
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Toluene	ON	0.50								
Ethylbenzene	R	0.50								
m,p-Xylene	QN	0.50								
o-Xylene	QN	0.50								
Cis-1,2-Dichloroethylene	0,903	0.10	1.00	0	90.3%	35	115	0		
Sample ID: MB-12562	Batch ID: 12562	Test Code: TPHDIW	TPHDIW	Units: µg/L	Marin Control (Control Control	Analysis	Date: 12/2/(Analysis Date: 12/2/04 5:07:43 PM	Prep Date: 12/2/04	
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N-Tricosane	36.5	0.10	50.0	0	73.0%	28	107	0	t	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Winzler and Ko 0411596 CLIENT:

Work Order:

90129801.049 Project:

V-11.:	
Neily	QC SUMMARY REPORT
49 Dutra Trucking	Laboratory Control Spike
THE PROPERTY OF THE PROPERTY O	

Date: 08-Dec-04

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Analyte	Result	Línnit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	41.43	3.0	40.0	0	104%	85	115	0			
Benzene	5.256	0.50	5.00	0	105%	85	115	0			
Toluene	5.315	0.50	5.00	0	106%	85	115	0			
Ethylbenzene	5.283	0.50	5.00	0	106%	85	115	0			
m,p-Xylene	10.48	0.50	10.0	0	105%	85	115	0	,		
o-Xylene	5.258	0.50	5.00	0	105%	82	115	0			
Cis-1,2-Dichloroethylene	1.08	0.10	1.00	0	108%	85	115	0			
Sample ID: LCSD-04709	Batch ID: R32260	Test Code: BTXEW	BTXEW	Units: µg/L	So removating exercises and missing exercises are exercised exercises and missing exercises are exercised exercises and missing exercises are exercised exercises and missing ex	Analysis	Date: 12/2/	Analysis Date: 12/2/04 3:35:01 AM	Prep Date:	10;	Mitchaecumonumente Schitz
Client ID:		Run ID:	ORGC8_041201B	01B		SeqNo:	468110	0	-		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	33.45	3.0	40.0	0	83.6%	85	115	41,4	21.3%	15	SR
Benzene	5.022	0.50	5.00	0	100%	85	115	5.26	4.55%	<u>ក</u>	
Toluene	4.988	0.50	5.00	0	88.8%	85	115	5.32	6.36%	15	
Ethylbenzene	5.006	0.50	5.00	0	100%	82	115	5.28	5.39%	15	
m,p-Xyiene	9.943	0.50	10.0	0	99,4%	85	115	10.5	5.28%	15	
o-Xylene	4.894	0.50	5.00	0	97.9%	85	115	5.26	7.18%	15	
Cis-1,2-Dichloroethylene	1.02	0.10	1.00	0	102%	82	115	1.08	5.87%	15	
Sample ID: LCS-12562	Batch ID: 12562	Test Code: TPHDIW	TPHDIW	Units: µg/L	ESTONIO PROPERTIES DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTI	Analysis	Date: 12/2/0	Analysis Date: 12/2/04 3;36:12 PM	Prep Da	Prep Date: 12/2/04	WANTED STATE OF THE STATE OF TH
Client ID:		Run ID:	ORGC7_041202A)2A		SeqNo:	467772	č			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel	453.3	05	200	0	90.7%	80	120	0		consistent in any months.	A containment of the section
N-Tricosane	41.8	0.10	20.0	0	83.7%	28	107	0			

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

S - Spilke Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Winzler and Kelly CLIENT:

0411596 Work Order:

90129801.049 Dutra Trucking

Project:

QC SUMIMARY REPORT

Laboratory Control Spike Duplicate

RECOGNISHED TO THE PROPERTY OF	oresecond and the control of the con	فندية وتوريس الأرج فيروسي وإجرارها	O.S.C. ST. Total Co.	eracomo activerse en en esta de compaños en entre d	the second second second second		Control of the Contro	<u>Stigitateinem sedonem mancios (NP) (SA)</u>	The state of the s	PACCAL TOTAL SEED SON OF CHARLES ON	North State of the
Sample ID: LCSD-12562	Batch ID: 12562	Test Code: TPHDIW	TPHDIW	Units: µg/L		Analysis	Analysis Date: 12/2/04 3:54:32 PM	32 PM	Prep Da	Prep Date: 12/2/04	
Client ID:		Run 10:	ORGC7_041202A	:02A		SeqNo;	467773				
Analyte	Result	Limit		SPK value SPK Ref Val	% Rec	LowLimit	LowLimit HighLimit RPD Ref Val	ef Val	%RPD	%RPD RPDLimit	Qual
TPHC Diesel	498.8	20	50 500	0	99.8%	99.8% 80	120	453	9.56%	15	
N-Tricosane	44.7	0.10	20.0	0	89.5%	28	107	41.8	6.70%	15	

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

R - RPD outside accepted recovery limits

NORTH COAST	LABORATORIES LTD.	5680 West End Road · Arcata · CA 95521-9202	707-822-4649 Fax 707-872-6831
E	区区	ノダ	

Chain of Custody

		LABORATORY NUMBER: COGINE GROSS
Attention: Ken These	VIIAE	TAT: \Box 24 Hr \Box 48 Hr \Box 5 Day \Box 5-7 Day
Results & Invoice to: \(\lambda\rangle\rangl	Addas	☐-STD (2–3 Wk) □ Other:
Address: (655 Three 44	EBBE	prior authorization is required for rushes
Eureka CA 95501	2431	DEDONTHIO BEOTHER IT IT
Phone: 443 - 6326		REFORTING REQUIREMENTS: State Forms □
Copies of Report to:	72. s	Preliminary: FAX ☐ Verbal ☐ By:
	3	Final Report: FAX ☐ Verbal ☐ By:/
Sampler (Sign & Print):	/	CONTAINER CODES: 1—1/5 gal pl: 2—250 ml rl:

_	
	CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L. Nalgene: 5—250 ml BC·
	6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
	13—123 III VOA, II—4 02 glass Jal; 12—6 02 glass Jar; 13—brass tube; 14—other
	PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H,5O.;
	d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—other
	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	The state of the s
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	1 1 Mac Marine

SISYJANA

Project Name: Dutra Truckeria

Project Number: 40129801.047

* PROJECT INFORMATION

DATE | TIME | MATRIX*

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MW- 7 A160 - 3 Q C T B

Purchase Order Number:

1-30-04

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*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

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WINZLER & KELLY CONSULTING ENGINEERS

STANDARD OPERATING PROCEDURES for MONITOR WELL PURGING AND SAMPLING ACTIVITIES

1.0 Objective

To establish accepted procedures for the purging and sampling groundwater from monitoring wells, to ensure that representative samples of formation water are collected by accepted methods.

1.1 Background

To obtain a representative groundwater sample from monitor wells, it is necessary to remove (purge) stagnant water from within and near the well prior to sampling. In general, three to seven casing volumes must be removed from the well prior to sampling, to provide a representative sample. Wells may be sampled after purging less than the minimum three volumes if well recharge rates are beyond reasonable time constraints. The specific method of well purging will be decided on a case by case basis, or as required by project specifications.

1.2 Personnel Required and Responsibilities

<u>Project Manager</u>: The Project Manager (PM) is responsible for ensuring that field personnel have been trained in the use of these procedures and for verifying that monitoring well purging and sampling activities are performed in compliance with these SOP's.

<u>Field Technician</u>: The Field Technician is responsible for complying with these SOP's, including the purging and sampling of monitor wells, the safe containerization of extracted waters, the documentation of field procedures, and the handling of samples.

2.0 WELL PURGING ACTIVITIES

2.1 Equipment Required

- Bottom-filling bailer, suction air pump, air-lift pump, gas operated (bladder) pump, submersible pump, or other pumping device
- pH meter
- Conductivity/Temperature Meter
- Water Level Indicator
- Well Sampling Data Sheet
- Indelible marker
- Disposable gloves
- Containers to hold extracted water (as required)

2.2. Purging Procedure

Prior to groundwater sampling, each monitoring well will be purged as described below. Prior to insertion into each well, all equipment will be either decontaminated (following W&K Decontamination procedures) or will be deemed clean or previously unused by the manufacturer.

- Open all monitoring wells to be purged and allow to equilibrate 5 to 15 minutes. Record time and visual observations regarding well access, condition, security, etc. in log book.
- Obtain depth to groundwater level readings according to Winzler & Kelly Standard
 Operating Procedures for Groundwater Level measurements and Free Phase
 Hydrocarbon Measurements. Record time and readings on the Well Level
 Measurement Data Sheet.
- Calculate the volume of standing water in each monitoring well. Record the volume calculated for each well on the Well Sampling Data Sheet.
- Begin purging the well by removing water from the well and collecting in a calibrated container (i.e., 5-gallon bucket marked in 1-gallon increments). The depth, or interval, from which the water is being purged should be noted on the data sheet.
- Obtain readings of field parameters (pH, conductivity, temperature, and turbidity) and make visual observations of color/odor/turbidity at selected intervals (i.e., every gallon, every five gallons, etc.) throughout the purging process. Depending on the calculated volume and the expected number of gallons to be purged, a minimum of five readings should be collected. Record the time, readings, and visual comments on the Purge Data Sheet.
- Continue purging until at least three (minimum) to four well volumes have been removed and the field parameters stabilize to within:

```
pH ~0.1
conductivity ~10%
turbidity ~10%
temperature ~1°
```

Do not exceed seven well volumes.

- Obtain a final depth to groundwater level measurement prior to collection of the groundwater sample and note the reading and time on the Well Level Measurement Data Sheet. Be sure that the measurement probe has been thoroughly decontaminated prior to insertion into each well. Note any qualitative comments regarding recharge rate of each well, and calculate the percent of the original water column that has recovered at the time of the final depth measurement. It is ideal to attain a minimum of 80% water level recovery prior to sampling, if time constraints allow. Very slow recharge rates may not allow purging the minimum three volumes or 80% recovery; lesser volumes may be used for sampling, as needed and documented.
- Collect a groundwater sample following the directions below under Section 3.0.
- Containerize all purge water and decontamination water in 55-gallon drums. Use yellow indelible markers (storeroom supply) to label all drums on the side with date, contents, origin and other pertinent information. Avoid marking the tops of drums

with black marker, such marks are temporary and will soon fade/rust. Note the number, condition and location of drums on site in the field notes.

3.0 WELL SAMPLING ACTIVITIES

3.1 Equipment Required

- Disposable bailer (previously unused) *
- Bottom emptying device (sampling port)
- Monofilament nylon line (min 40-lb test)
- Monitor Well Purge & Sample Data Sheets
- Sample containers (preserved, as required) provided by the laboratory
- Sample labels
- Indelible marker
- Disposal gloves
- Decontamination soap (Alconox)
- Distilled water for equipment decontamination.
 - * A variety of sampling techniques are available for the collection of groundwater samples. Except where otherwise required, W&K only utilizes disposable polyethylene bailers to collect groundwater samples.

3.2. Sampling Procedure

Prior to collecting a groundwater sample from a monitoring well, each well must be properly purged in accordance with W&K's SOP for Monitoring Well Purging Activities (See Section 2.0 above), including the measurement of the final water level and documentation of recharge.

- Water from the desired screen interval will be collected by lowering the previously unused disposable, polyethylene, bottom-filling bailer into the well.
- When bailer is completely full, carefully retract the bailer from the well casing.
- Using a previously unused, new, bottom-emptying device, to minimize agitation of the water, transfer the water from the bailer to the sample containers.
- When sampling for volatile constituents (VOA's), the water samples will be collected in 40-ml glass vials (preserved as required by the analyses requested). Precautions will be taken to prevent capturing air bubbles in the vials.
- Upon filling, each vial will be immediately capped with a Teflon septum and plastic screw cap. The vial will be checked for air bubbles by inverting and gently tapping the vial. If any bubbles are visible, the vial will be refilled and confirmed to be free of any air bubbles.
- At a minimum, all samples will be labeled with the following information:

Sample ID

Date and Time Sample Collected

Location

Sampler's Initials

Project Number

Analyses Requested

• Sample information will be documented on the Chain-of-Custody form.

- All samples will be placed in an ice chest, chilled to a temperature of 4°C. The ice chest will remain in the custody of the sampler until it is transferred to the courier service for delivery at the analytical laboratory for analyses. Any and all transfer of sample custody must be documented on the Chain-of-Custody form with the name, signature, affiliation, date and time of the persons releasing and receiving custody of the samples.
- Upon completion of the sampling activities, each well shall be closed and secured by replacing the well cap and securing the lock.
- Dispose of gloves, bailers, bottom-emptying devices, and bailing line after each use.

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Carlos Acu 90129801-049

FIELDWORK REQUEST QUARTERLY MONITORING AND SAMPLING

Dutra Trucking, Boyd Road, Arcata

PERSE OF PERSON Work requested November 29, 2004

Our client Frank Dutra may be on site to witness quarterly sampling field work. His phone number is (707) 322-2771 cell.

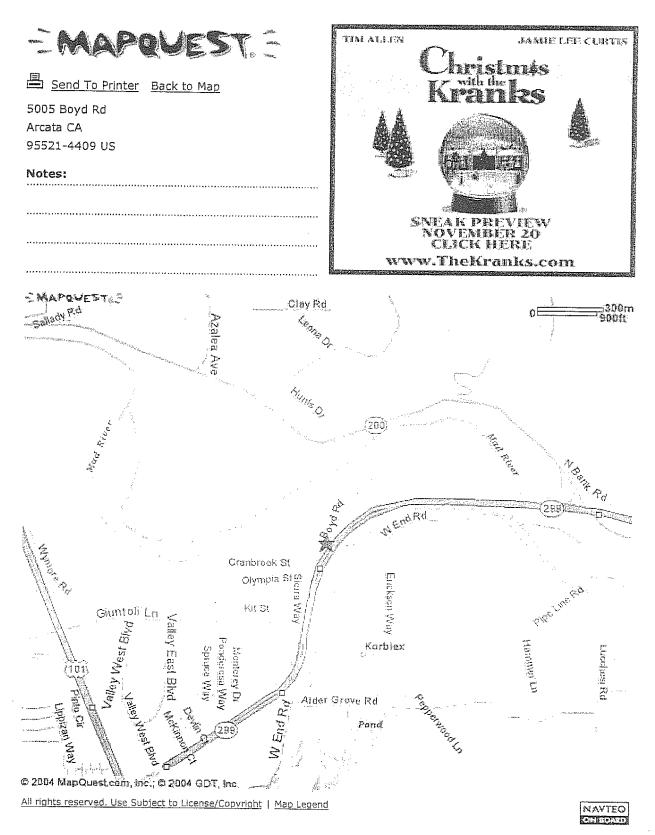
Obtain depth to water data.

Upon arrival at the site, open wells to allow groundwater to stabilize. Take measurements from mark at north edges of well casings. For dry wells, indicate this on field forms. Wells containing very little water that do not promptly recharge following purging are to be considered dry.

Sample Groundwater from all Five Wells

- Chemical analyses of the 5 water samples for TPH-D by Method 3550 and BTEX and MTBE by Method 8021; (2-75 ml VOAs, 3-40 ml VOAs)
- MW-3 is only well where contamination is anticipated (See attached figures and table)
- Collect dissolved oxygen, conductivity, temp, and pH data during quarterly sampling work.
- Estimated field time 5 hours and will include delivery of samples to North Coast labs.
- Note that chain link fence runs between wells 1, 2, & 3 and wells 4 & 5.
- Adequate drums are on site for storing purge water.
- During well purging, keep water from well 3 separate from other well purge water.
- Label drums as appropriate

Please call me with any questions. Ken Thiessen



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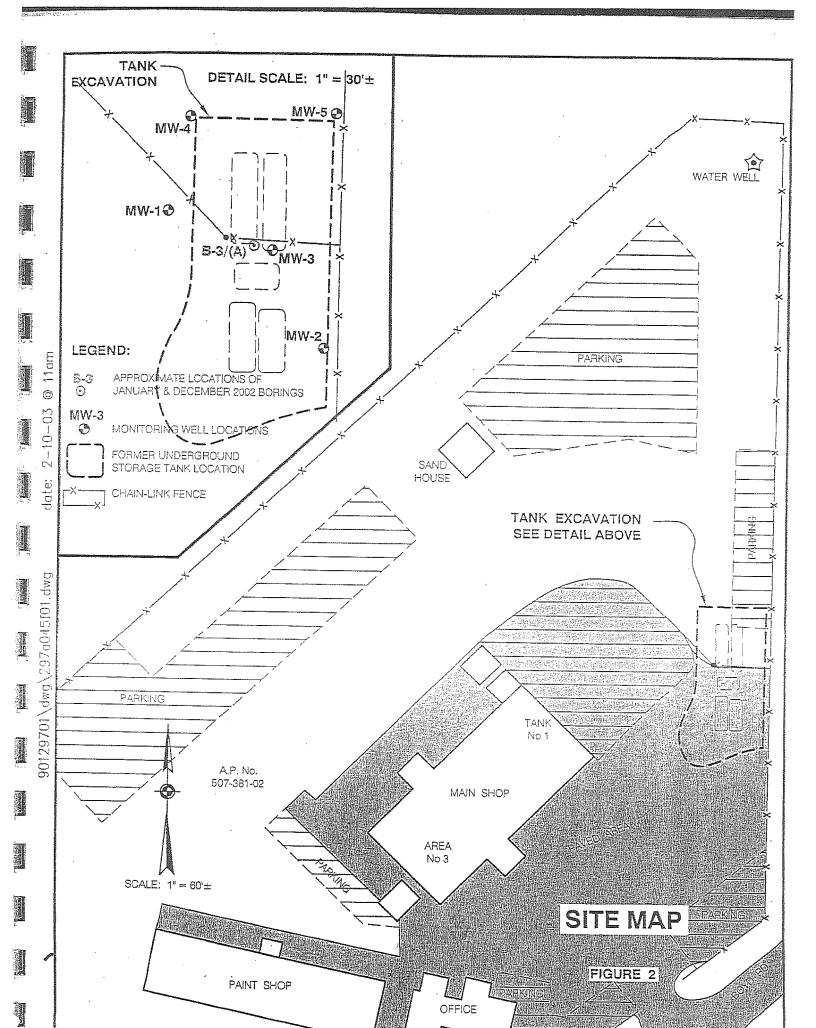
TABLE, 3 GROUNDWATER AMALYTICAL RESULTS Fotner Dufta Trucking, LOP#12264

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(All units reported in parts per billion)

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_		Sample	Date	URFACE INV	28-Jan-02	28-Jan-02	29-Jan-02	29-Jan-02	29-Jan-02	29-Jan-02	30-Dec-02	GIC INVEST	4-Feb-04	4-Feb-04	4-Feb-04	4-Feb-04	JUNDWATER	3-May-04	3-May-04	3-May-04
	•••		Sample ID	NITIAL SUBSURFACE INVESTIGATION 2002	B1	B2	. 83	84	85	Jonnestic Well 29-Jan-02	. 83	IYDROGEOLOGIC INVESTIGATION 2003		MW-2	•	MW.S	1AY 2004 GROUNDWATER MONITORING EVEN	MW-2 .	MW-3	MW-5

ND Not Detected NA Not Analyzed



converse the wells + drum

633 Third Street, Eureka, CA 95501-0417 (707) 443-8326 / FAX (707) 444-8330

	707) 443-8326 / FAX (707) 444-833
By CA Date 11-30-04 Client Dutra	Sheet No of
Subject Monitoring	
	Job No. <u>90129801.0</u>
- Loaded up the truck	
- Arrived on site + located the wells	
- Opened up the wells	
- Waited for the Wells to equilibrate	
- Decon Water meter upon arrival + betwee	a Wells
- Used new disposable boilers at each well	to Dunt & Engla
- Mr. Dutro showed up	For The Survey of the
- Wells MW-1, 4, +5 are dry.	
- MW-3 has very little water. I collect	ed Sampler with
- MW-3 has very little water. I collect purging. I was only able to get 2-60ml	Voos 4 2 - repular
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- I purged MW-z with a baller + waite	in the feet
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WINZLER & KELLY Consulting Engineering

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PROJECT NAME: Dotra trucking PROJECT NUMBER: 90129801.049

TODAY'S DATE 11-30-04
FIELD PERSONNEL CA

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	OPEN WELL	INITIAL W	ATER LEVEL	FINAL WAT	ER LEVEL	
NUMBER	Time	Time	Depth to Water (ft. bgs)	Time D. 0	Depth to Water (fL bgs)	COMMENTS
MW-4	9:05	9:45	Dry			
MW-5	9110	9;57	Dry			
MW-Z	9175	10:03	13,53	1.4 mg/L'		zo '
MW-1.	9;20	10:10	Dry			
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and the state of t			1		TOTAL	
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Weather Condi	iions Today:	Jindy,	cold +	Fainy		

UST Fund Sampling Supplies and Equipment

JOB NUMBE	AME Dutra trucking	SAMPLER NAME:	<u>CA</u>
DOD MUNDE	90129801.049	_ DATE WORKED;	11-30-02
		FIELD HOURS:	
Quantity	Item		
PPE	кел	Cost \$ per	total
	Tyveks Suits (White)		
	Polyethylene Suit (yellow)	\$6,00 each	
	Gloves, nitrile	\$7.59 sach	
	Organic Vapor Cartridge R51A	\$2.59 pair	
SAMPLING	Tapor Cardioge RoyA	\$10.08 pair	
	Traffic Control Barricades	1	
	Disposable Bailers and drain tube	\$5,00 each	
	Pressurized ballers	\$8.00 each	16.00
	Filters	\$10,00 each	
	Encore Sampler Set (included 3- 5 gm. samplers)	\$15.00 each	
	Extra sampler	\$30.00 each	
	Purge pump 2" submersible	\$10.00 each	
	2" Well Point w/ 4 4'extensions	\$45.00 day	
	1" Well Point w/ 4" extensions	\$50,00 day	
	Drum Theives	\$50.00 day	<u> </u>
	Soil tubes (brass)	\$3.04 each \$8.90 each	
	Soil tubes (ss)		
	Hand ouger with split apoor, sampler/hammer	\$10.00 each \$30.00 day	
ELL CONSTRU	CTION & DEVELOPMENT	aco.ou day	
	Stalgless bailer	\$5.00 day	
	1 1/4" poly well development hose	\$0,25 feet	
	2" PVC well casing SOH 40	\$3.50 foot	
	0"PVC stotted well screen SCH 40	\$4.50 foot	
	Viscuene (6 mil) sheeting (100x20 H)	\$70.00 roll	
	Locking wed cap (2")	\$20.05 each	
	Lociano wet cap (4")	\$22.00 each	
	Padloch	\$10.00 each	
	PVC site on caps (2")	\$4.00 each	
· · · · · · · · · · · · · · · · · · ·	PVC slip on caps (4")	\$8.00 each	
	Bentonne, 50 to Bag	\$1000 each	
	55 sallon Drum:	\$40.00 cach	
Tible SAT Line code			, <u>, , , , , , , , , , , , , , , , , , </u>
TRUMENTATIC)			
	Water level indicator probe	\$25.00 day	<u> </u>
1,4-	Water/Froduct interface meter	\$140.00 day	
	Dissolved Oxygen Mete:	\$40.00 cay	20.00
	DO field test kit	\$1.00 test	
	Photovac TIP Photo-Ion detector	£100.00 day	
	Sensidyne Pump Sensidyne Tubes	\$25.00 day	
	Air Sampling pump	\$7.00 each	
1/2	pH/Cond/Temp Meter	\$50.00 day	
	Turbidity Meter	\$40.00 day	20.00
	Pipe Finder (metal detector)	\$20.00 day	
	Surveying Total Station	\$20,00 day	
LL ITEMS		\$100,00 day	
	Misc. small items*	005.65	
-	*small items include disposable gloves, water, foil,	\$25.00 day	
	tape, towels, plastic bags, fishline, soep, labels, etc.		
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